

## Abstract of the Disclosure

Techniques for making aggregated entries in a database table which aggregate information from  
5 other entries in tables in the database system. The techniques permit the aggregated entries to  
contain not only metric values aggregated from the other entries by techniques such as averaging  
in which the individual values are lost, but also sets of individual values from the other entries.  
One area of application for the techniques is the roll up tables used in the management systems  
for database management systems to reduce the size of historic information about events that  
10 have occurred in the database management system. Each roll up entry in a roll up table is an  
aggregated entry that contains information about some number of events. A roll up entry that  
uses the techniques contains a representation of a set whose values are the occurrence times of  
the events that are represented by the rollup record. Among the techniques that can be used to  
represent the set of occurrence times are a comma list of the occurrence times and a bit map  
15 which has a bit for each second in a day. Roll up entries that contain such representations of sets  
of occurrence times may be analyzed to determine whether occurrences of events are related,  
and if they are, the fact of the relationship can be used to design filters that can be applied in the  
roll up process, in error reporting, and in the analysis of the roll up tables.